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CUMULATIVE INDEX
Vols. 1 & 2

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BINDING AND INDEX INSTRUCTIONS

This issue of *Nuclear Science Abstracts* contains the cumulative author, subject, nuclide, foreign geographic, and published documents indexes for volumes 1 and 2 (the twenty-four issues of July 15, 1948, through June 30, 1949, inclusive). The pagination of these indexes is a continuation of the pagination of volume 2. A cumulative table of contents and location lists of U. S. Atomic Energy Commission declassified and unclassified documents are also provided. In binding volume 2, the tables of contents and the location lists of the individual issues (numbered with Roman numerals) and the several individual issue indexes (numbered with Roman numerals) should be discarded for they are superseded by the cumulations contained in this issue.

The author index is a straight alphabetical listing. In several cases the nationality of an author with a prefix name could not be determined. When this occurred, the author has been listed according to the prefix in agreement with the established American Library Association convention for alphabetizing American names with prefixes, e.g., De Quevado is filed in the "D" section instead of the "Q" section of the alphabet. The published documents index lists the journal or book in which articles or chapters based on Atomic Energy Commission declassified and unclassified documents have appeared. Only those documents listed and abstracted in the first two volumes of *Nuclear Science Abstracts* have been considered for this index. No explanation is necessary for the foreign geographic index and the location lists of Atomic Energy Commission declassified and unclassified documents.

The subject index for the most part uses minute, detailed entries, and is a straight alphabetical listing with one exception which is pointed out below. An element such as Carbon is listed first as a main heading subdivided by appropriate form headings. This main heading is immediately followed by the main heading Carbon Isotopes subdivided with the necessary form headings, which in turn is followed by specific carbon isotopes, such as Carbon C-10, listed according to mass number. The specific isotopes are then followed by the main heading Carbon Compounds. This artificiality in alphabetization (filing Carbon Isotopes before Carbon Compounds) was introduced into the index in order to keep an element (the normal isotopic mixture) and its several isotopes from becoming separated in the alphabet.

All organic compounds are listed both under the main heading Organic Compounds and under the specific name of the compound. For the simpler organic compounds the common or trivial names have been used (Ethyl Alcohol not Ethanol), and the names of derivatives have been inverted so that they will file behind the parent compound. Where necessary "see" references have been provided to direct the index user to the section of the alphabet where references to the compound he is interested in are located.

In this cumulative index the several inorganic compounds are listed as subheads under the appropriate main head. As an example, under the main head Aluminum Compounds will be found such subheads as Aluminum Nitrate and Aluminum Oxide. In future cumulations of Nuclear Science Abstracts subject indexes this rather indirect method of entering inorganic compounds will be abandoned and a straight forward, direct entry for the individual compound will be made as is done for organic compounds.

For the convenience of the user and in order to keep him from referring to several places in the alphabet before finding the entry he is looking for, a bibliographic device known as "double indexing" has been frequently resorted to. As an example, if references to shielding for reactors are sought, they will be found under both Reactors - Shielding For and Shielding - For Reactors. Too, where it is believed that the grouping of references under large subject headings may be of use to the index user this has been done as well as listing the references under minute, detailed entries. As an illustration, all references to Radiation Detection Instruments have been grouped

under this entry and subdivided according to generic types, as well as listed alphabetically under specific radiation detection instruments. Thus a reference pertaining to Geiger-Müller counters is listed under Radiation Detection Instruments - Pulse Type and Geiger-Müller Counters. The same bibliographic technique has been followed in the case of isotopic tracer applications where the reference is listed under Tracer Applications and under the specific isotope used as the tracer such as Carbon C-14.

Large numbers of "see" and "see also" references have been provided. A "see" reference sends the index user from a subject entry under which references are not listed to the entry under which references are listed; a "see also" reference refers the user from an entry under which references are listed to an entry where references to allied or related subjects may be found.

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